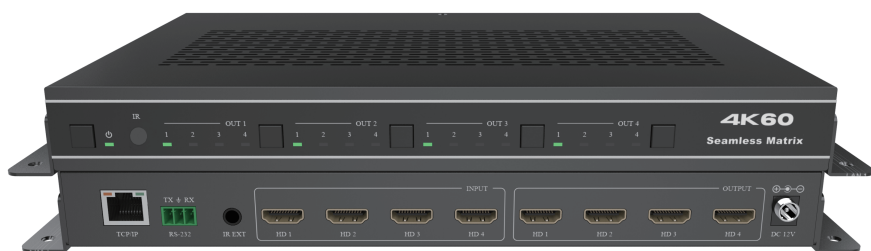# NEXIS

4K60 4x4 Seamless Matrix

HW44R

1. Introduction

The 4K60 4:4:4 HDMI matrix is a multi-purpose high-speed video processing system. It can be configured for 2 different output modes. It can perform as a 4×4 seamless matrix switcher, as a 2×2, 4×1 or 1×4 etc video wall solution. It also features a web browser interface module for control and configuration of the matrix when used stand-alone or with a third party control system. Control options include front-panel push buttons, IR remote control, RS-232 interface and TCP/IP.
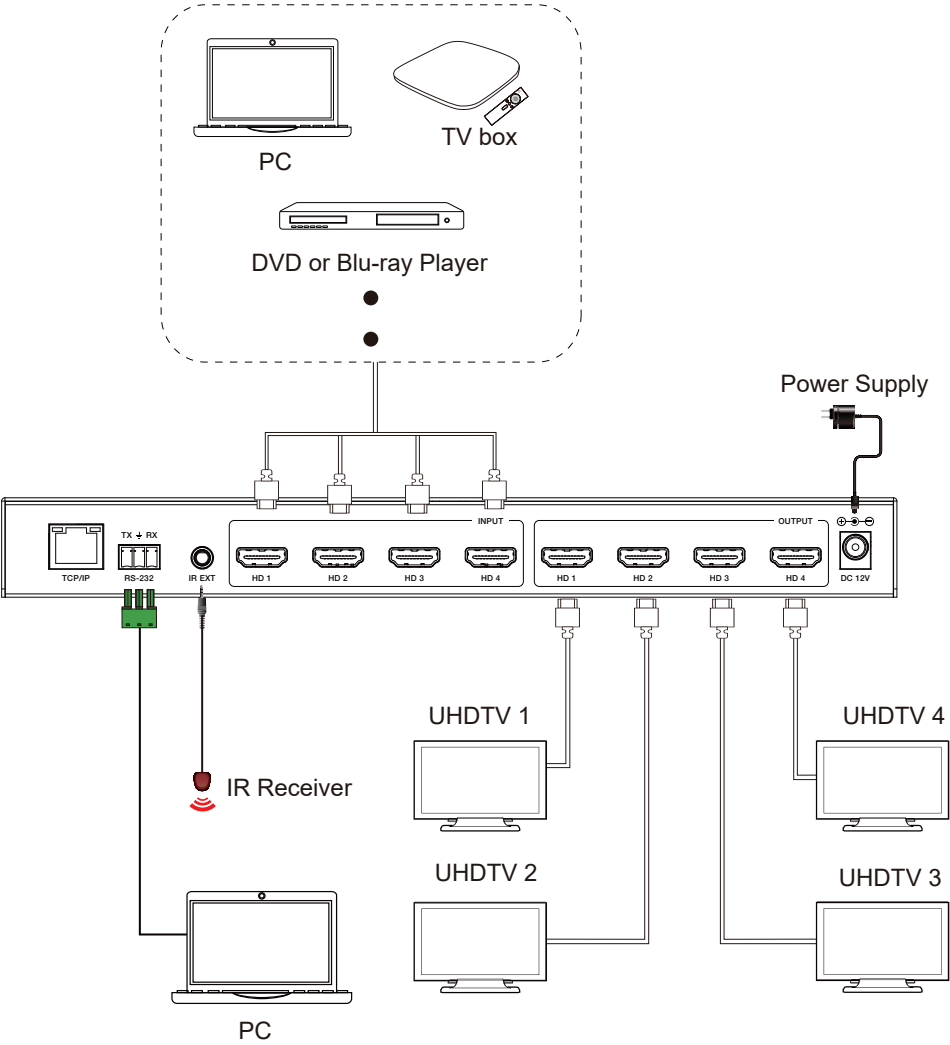
2. Features

☆ Compliant HDMI 2.0b
☆ Compliant HDCP 2.2 and HDCP 1.4
☆ Features 2 operational modes:
   - 4×4 Matrix (seamless switch)
   - Video wall (2×2, 4×1 or 1×4 etc configuration)
☆ Seamless video switching
☆ Video inputs support all industry standard video resolutions including VGA-WUXGA (up to 1920×1200 @60Hz) and 480i-4K (3840 x 2160 @60Hz 4:4:4, 4096 x 2160 @60Hz 4:4:4)
☆ HDMI outputs support upscale or downscale to any resolution, up to 4096 x 2160@60Hz 4:4:4
☆ Support LPCM, DD, DD+, DTS, Dolby TrueHD, DTS HD-master pass-through
☆ Advanced EDID management
☆ Web interface module for control and configuration of Matrix
☆ Control via front panel, IR, RS-232 and TCP/IP
☆ 3rd Party drivers available for all major home control brands

3. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2/1.4
Video Bandwidth	594MHz/18Gbps
Video Resolution	Input: VGA-WUXGA (up to 1920×1200@60Hz), 480i-4K (3840x2160@60Hz 4:4:4, 4096x2160@60Hz 4:4:4)
	Output: 4096x2160p60, 4096x2160p50, 3840x2160p60, 3840x2160p50, 3840x2160p30, 1920x1080p60, 1920x1080p50, 1920x1080i60, 1920x1080i50, 1920x1200p60rb, 1360x768p60, 1280x800p60, 1280x720p60, 1280x720p50, 1024x768p60, auto
Color Space	RGB, YCbCr 4:4:4/4:2:2, YUV 4:2:0
Color Depth	8/10/12-bit
IR Level	12Vp-p
IR Frequency	38KHz
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio
Connection	
Inputs	4 x HDMI Type A [19-pin female]
Outputs	4 × HDMI Type A [19-pin female]
Control	1 × RS-232 [3pin-3.81mm phoenix connector] 1 × TCP/IP [RJ45] 1 × IR EXT [3.5mm Stereo Mini-jack]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	270mm (W) × 166mm (D) × 30mm (H)
Weight	1165g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 12V/2.5A (US/EU standard, CE/FCC/UL certified)
Power Consumption	19.56W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

4. Application Example

Power Supply

PC

TV box

DVD or Blu-ray Player

INPUT

OUTPUT

TCP/IP   RS-232   IR EXT   HD 1   HD 2   HD 3   HD 4   HD 1   HD 2   HD 3   HD 4   DC 12V

TX ⊣ RX

IR Receiver

UHDTV 1

UHDTV 2

UHDTV 4

UHDTV 3

PC

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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